

Amendments to the Claims

1-6. (Cancelled)

7. (Previously Presented) A method for dynamically directing a wireless repeater, the method comprising:

receiving wireless signals by directing an antenna to incrementally sweep its coverage area across a given area, and to thereby receive wireless signals from a plurality of base stations; the wireless repeater determining carrier-to-cochannel interference ratios of the received wireless signals; and

based on the carrier-to-cochannel interference ratios, directing the wireless repeater to radiate amplified wireless signals at a given increment.

8. (Cancelled)

9. (Previously presented) The method of claim 7, wherein receiving the wireless signals by directing an antenna to incrementally sweep its coverage area across a given area comprises receiving the wireless signals from a plurality of directional antenna components, where each directional antenna component is operable to receive wireless signals from a given coverage area.

10. (Previously Presented) The method of claim 7, further comprising for each of the received wireless signals, storing in data storage a coverage area identifier corresponding to an increment from which the wireless signals were received.

11. (Original) The method of claim 7, further comprising determining a PN-offset of each received wireless signal.

12. (Previously Presented) The method of claim 7, wherein directing the wireless repeater to radiate amplified wireless signals at a given increment comprises directing the wireless repeater to radiate the amplified wireless signals at an increment corresponding to a strongest carrier-to-cochannel interference ratio.

13. (Cancelled)

14. (Previously Presented) The method of claim 7, further comprising radiating the amplified signals in a direction of a given sector of a given base station.

16-22. (Cancelled)

23. (Previously Presented) A wireless repeater comprising:
a donor antenna that is operable to communicate with a plurality of base stations and to receive wireless signals over a coverage area by incrementally sweeping across the coverage area, thereby receiving wireless signals from a plurality of base stations;

a mobile station modem that receives wireless signals from the donor antenna and identifies characteristics of the wireless signals received; and

a processor operable to record in data storage the characteristics of the wireless signals received and, based on the characteristics, to direct the donor antenna to radiate amplified wireless signals at a given increment.

24. (Original) The wireless repeater of claim 23, wherein the characteristics are selected from the group consisting of PN-offsets of the wireless signals and signal to noise ratios (E_C/I_O) for each PN offset.

25. (Cancelled)

26. (Previously Presented) The wireless repeater of claim 23, wherein at each increment, the donor antenna receives wireless signals and passes the wireless signals to the processor which records in the data storage the increment at which each wireless signal was received.

27. (Original) The wireless repeater of claim 26, wherein the mobile station modem includes a rake receiver that identifies PN-offsets in the wireless signals.

28. (Original) The wireless repeater of claim 27, wherein the processor records in the data storage the PN offsets and signal-to-noise ratios of the wireless signals at each increment.

29. (Original) The wireless repeater of claim 28, wherein the processor instructs the donor antenna to radiate the amplified wireless signals to a base station that corresponds to an increment where the mobile station modem detected a highest signal-to-noise ratio.

30. (Original) The wireless repeater of claim 23, wherein the donor antenna is an antenna selected from the group consisting of an omni-directional antenna, a directional antenna, and a phased array antenna.

31. (Original) The wireless repeater of claim 23, wherein the donor antenna is a phased array antenna, and wherein the processor records the phase of the phased array antenna at which each wireless signal is received, and based on the characteristics of the wireless signals, directs the phased array antenna to radiate the amplified wireless signals at a given phase.